

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference TES-011-PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/05799	International filing date (day/month/year) 03/06/2003	(Earliest) Priority Date (day/month/year) 04/06/2002
Applicant TESSENDERLO CHEMIE S.A.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. **Certain claims were found unsearchable** (See Box I).

3. **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

None of the figures.

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C07C253/28 C07C255/50 B01J27/198 B01J27/199

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 C07C B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data, API Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ZHENG QIONG ET AL.: "A Direct SYnthesis of Aromatic Nitriles from Methylaromatic Compounds by Ammonoxidation on DC-108 Catalyst" SYNTHETIC COMMUNICATIONS, vol. 29, no. 13, 1999, pages 2349-2353, XP008010117 the whole document --- -/-	1-13, 15, 26-29

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search 13 November 2003	Date of mailing of the international search report 28/11/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Veefkind, V

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International Application No
PCT/EP 03/05799

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CHEMICAL ABSTRACTS, vol. 132, no. 6, 7 February 2000 (2000-02-07) Columbus, Ohio, US; abstract no. 65726e, ZHENG QIONG ET AL.: "Catalysts for Preparing 2,6-Dichlorobenzonitrile by Ammonia Oxidation Process" page 830; column 2; XP002219412 & CN 1 166 378 A (WUHAN UNIVERSITY) 3 December 1997 (1997-12-03) abstract ---	1-13, 15, 26-29
X	EP 0 141 228 A (NIPPON KAYAKU KK) 15 May 1985 (1985-05-15) page 2, line 1 - line 19 page 4, line 5 - line 11 page 5, line 19 - line 20; claims 1-8; table 3 ---	1-18, 26-29
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; DIAO, XI-HUA ET AL: "Synthesis of 2,6- dichlorobenzonitrile by catalytic ammonoxidation" retrieved from STN Database accession no. 134:224265 XP002261463 abstract & HEBEI KEJI DAXUE XUEBAO (2000), 21(2), 4-8 , ---	1, 15, 26-29
X	DATABASE WPI Section Ch, Week 199114 Derwent Publications Ltd., London, GB; Class B05, AN 1991-099164 XP002261464 & JP 03 044362 A (HODOGAYA CHEM IND CO LTD), 26 February 1991 (1991-02-26) abstract ---	1, 15, 26-29
X	US 4 147 661 A (HIGGINS RAYMOND ET AL) 3 April 1979 (1979-04-03) column 2, line 58 - line 66; examples 1,7 -----	19-25

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/05799

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
CN 1166378	A 03-12-1997	NONE		
EP 0141228	A 15-05-1985	JP 1615802 C JP 2044464 B JP 60067454 A DE 3468411 D1 EP 0141228 A1		30-08-1991 04-10-1990 17-04-1985 11-02-1988 15-05-1985
JP 3044362	A 26-02-1991	JP 2806480 B2		30-09-1998
US 4147661	A 03-04-1979	GB 1591307 A BE 860512 A1 DE 2750327 A1 FR 2370514 A1 IT 1089056 B JP 1364336 C JP 53061588 A JP 61025420 B ZA 7706580 A		17-06-1981 05-05-1978 18-05-1978 09-06-1978 10-06-1985 09-02-1987 02-06-1978 16-06-1986 27-06-1979